

DEPARTMENT OF THE AIR FORCE
TECHNICAL ORDER

TO 31P1-4-108-554
DATA CODE: 3117856
1 July 1997
Rescission date: 1 July 1999

RETROFIT OF OPTICAL DISK CONTROLLER BOARD ASSEMBLY IN THE RADAR DATA ACQUISITION AND PRINCIPAL USER PROCESSOR CABINETS; WSR-88D DOPPLER METEOROLOGICAL RADAR

NOTE

Military Commanders are responsible for bringing this technical order to the attention of all maintenance personnel cleared for access of affected system.

1. APPLICATION.

1.1 Identification. This Inspection/Replacement TCTO is applicable to all WSR-88D RDA and PUP sites.

1.2 Kit Applicability by Model and Serial Number. Not applicable.

1.3 Proofing. Kit Proofing was accomplished at Altus AFB, OK.

2. PURPOSE.

The purpose of this Routine Action TCTO is to inspect the Optical Disk Controller (ODC) boards, Part Nos. 96-162F01M00R00 through R04 or 96-162F01M01R00 through R05, in the RDA and PUP Cabinets. If the board part numbers are within the above range, replacement EPROM chips are required. This retrofit corrects the problems that occurred during power up initialization and during a tape rewind operation. Previously, during power up initialization, the ODC initially returned false sync and showed the devices present even if none existed. Also, the power up sequence was not properly displayed on the light display output. During a tape rewind operation, a forced ABORT command would cause the SCSI bus to loop continuously. The authority for this TCTO is ECP 4260-002R3.

3. WHEN TO BE ACCOMPLISHED.

Not later than 60 days after receipt of TCTO and kit. Failure to accomplish the work by expiration of compliance period or 60 days past rescission date will be justification for withdrawing the affected system from service until compliance is accomplished.

4. BY WHOM TO BE ACCOMPLISHED.

Organizational level personnel will accomplish this modification.

5. WHAT IS REQUIRED.

5.1 Supply-Information and Requirements.

5.1.1 Kits/Parts/Material Required. The following part makes up the kit for this modification. *The OSF Logistics Section*

Distribution Statement A - Approved for public release; distribution is unlimited.

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will direct ship the required kit(s) to the NEXRAD maintenance facility at no cost.

<u>Nomenclature</u>	<u>Part No.</u>	<u>NSN</u>	<u>QTY</u>
Optical Disk Controller Chips	94-602F05R10 94-602F06R10 94-602F07R10 94-602F08R10	N/A	01
ODC Board Label 96-162F01M00R13	N/A	N/A	01
ODC Board Label 96-162F01M01R06	N/A	N/A	01
Federal Express Label	N/A	N/A	01

5.1.2 Action Required on Items in Stock. Replace ODC Board Chips, Part Nos.94-602F05, 94-602F06, 94-602F07, and 94-602F08 R00 through R9 with ODC Board Chips, Part Nos. Nos.94-602F05, 94-602F06, 94-602F07, and 94-602F08 R10.

5.1.3 Kits/Parts/Material Required to Modify Items in Stock. Not applicable.

5.1.4 Disposition of Removed and Replaced Parts/Material.Removed ODC Board Chips, Part Nos.94-602F05, 94-602F06, 94-602F07, and 94-602F08 R00 through R9, needs to be returned to the NRC, using the Federal Express label provided in kit.

5.1.5 Drawings and Instructions Required. Not applicable.

5.1.6 Size and Weight of Kits/Parts/Materials. Size, weight, and cost are estimated.

<u>Size</u>	<u>Weight</u>
10 in x 7 in x 4 in	2 Pounds

5.1.7 Disposition of Kits/Parts/Materials. Not applicable.

5.2 Personnel Information and Requirement. The personnel performing this task will have maintenance and test experience with WSI, RDA and PUP. One technician is required for this procedure.

<u>Work Phases</u>	<u>AFSC Skills</u>	<u>Man-Hours</u>
Unpacking	2E051	0.1
Disassembly	Not applicable	
Installation	2E051	0.8
Assembly	Not applicable	
Operational Check	2E051	0.1
	Total Man-Hours	1.0

5.3 Special Tools and Fixtures Required. Not applicable.

6. HOW WORK IS ACCOMPLISHED. Perform procedures in attachment 1 for the RDA, and attachment 2 for the PUP.

7. SUPPLEMENTAL INFORMATION.

7.1 Fuel System Defuel/Purge. Not applicable.

7.2 Operational Checkout Requirements. Refer to attachment 1.

7.3 Weight and Balance Information. Not applicable.

7.4 Technical Manuals Affected. Not applicable.

8. RECORDS.

8.1 Action Required on Maintenance Records.

- a. Update AFTO Form 95 to show TCTO compliance.
- b. Report TCTO compliance in accordance with TO 00-20-2, Table 3-10, Rule 9.
- c. Complete attachment 2 and mail, fax, or e-mail to:

System Support Branch, Logistics Section
Operational Support Facility
3200 Marshall Ave, Suite 101
Norman, Oklahoma 73072-8028

Fax number: (405) 366-6553

Or e-mail information to:

Logistics@osf.noaa.gov

8.2 Action Required on Supply Records. Not applicable.

8.3 Modification Markings. Not applicable.

BY ORDER OF THE SECRETARY OF THE AIR FORCE

MICHAEL E. RYAN, General, USAF
Chief of Staff

Signed
Edward L. Berkowitz, Chief
System Support Branch
Operational Support Facility
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